

ABSTRACT OF THE INVENTION

A solid oxide fuel cell device comprises: (a) zirconia based electrolyte; (b) at least one electrode situated on the electrolyte; (c) a component situated in close proximity to the electrolyte, the component comprising at least one metal or metal oxide capable, at temperatures of above 625°C, of: (i) migrating to the surface of this component, and (ii) being re-deposited on said at least one electrode; and (d) a protective coating situated on at least one surface of this component. The protective coating substantially prevents the at least one metal or metal oxide from leaving the surface of the component, which is situated under said protective coating. The protective coating is also being substantially impermeable to oxygen.